

ABSTRACT

Intelligent NIC optimizations includes system and methods for Token Table Posting, use of a Master Completion Queue, Notification Request Area (NRA) associated with completion queues, preferably in the Network Interface Card (NIC) for providing notification of request completions, and what we call Lazy Memory Deregistration which allows non-critical memory deregistration processing to occur during non-busy times. These intelligent NIC optimizations which can be applied outside the scope of VIA (e.g. iWARP and the like), but also support VIA.